



Docket No.: 042390.P18902

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

HINES, Kenneth J.

Application No.: 09/888061

Filed: June 21, 2001

For: EVOLUTION DIAGRAMS FOR
DEBUGGING DISTRIBUTED
EMBEDDED SOFTWARE
APPLICATIONS

Examiner: TANG, Kuo Liang J.

Art Group: 2122

RECEIVED

OCT 03 2004

OFFICE OF PETITIONS

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313 on:

9/29/04
Date of Deposit

Gayle Bekish

Name of Person Mailing Correspondence

Signature

Date

**PETITION FOR REVIVAL OF AN APPLICATION FOR PATENT ABANDONED
UNINTENTIONALLY UNDER 37 CFR 1.137(b)**

MAIL STOP Office of Petitions
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The above-identified application became abandoned for failure to file a timely and proper reply to a notice or action by the United States Patent and Trademark Office. The date of the abandonment is after the expiration date of the period set for reply in the Office Action or action plus an extension of time actually obtained.

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION

NOTE: A grantable petition requires the following items:

(1) Petition fee;

10/04/2004 SSITHIB1 00000172 09888061

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1330.00 OP

(2) Reply and/or issue fee;

(3) Terminal disclaimer with disclaimer fee – required for all utility and plant applications filed before June 8, 1995; and for all design applications; and

(4) Statement that the entire delay was unintentional.

1. Petition fee

Small entity-fee \$ _____ (37 CFR 1.17(m)). Applicant claims small entity status.

See 37 CFR 1.27.

☒ Other than small entity-fee \$ 1,330.00 (37CFR 1.17(m))

2. Reply and/or fee

A. The reply and/or fee to the above noted Office Action in

the form of RESPONSE TO OFFICE ACTION MAILED December 4, 2003 (type of reply);

has been filed previously on _____.

☒ is enclosed herewith.

B. The issue fee of \$ _____.

has been paid previously on _____.

is enclosed herewith.

3. Terminal disclaimer with disclaimer fee

☒ Since this utility/plant application was filed on or after June 8, 1995, no terminal disclaimer is required.

A terminal disclaimer (and disclaimer fee (37 CFR 1.20 (d)) of \$ _____ for a small

entity or \$ _____ for other than a small entity) disclaiming the required period of

time is enclosed herewith (see PTO/SB/63).

4. STATEMENT: The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137 (b) was unintentional. [NOTE. The United States Patent and Trademark Office may require additional information if there is a question as to whether either the abandonment or the delay in filing a petition under 37 CFR 1.137 (b) was unintentional (MPEP 711.03 (c), subsections (III)(C) and (D))].

Please charge any shortages and credit any overcharges to our Deposit Account number 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN, LLP

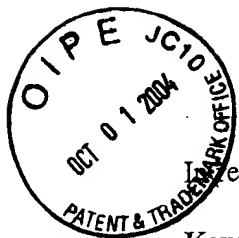
Date: September 29, 2004



Gregory D. Caldwell
Reg. No. 39,926

12400 Wilshire Boulevard, Seventh Floor
Los Angeles, CA 90025-1026
(503) 684-6200

Enclosures:	X	Fee Payments for 1) Petition to revive
	X	Response to Office Action mailed December 4, 2003
	X	Statement establishing Unintentional delay
	X	(2) Two IDSs filed October 8, 2001 and December 13, 2002
	X	(1) One Replacement Drawing
	X	Information Disclosure Statement



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Group Art Unit: 2122

Kenneth J. Hines

Application No. 09/888,061

Filed: June 21, 2001

For: **EVOLUTION DIAGRAMS FOR
DEBUGGING DISTRIBUTED
EMBEDDED SOFTWARE
APPLICATIONS**

Date: December 13, 2002

I HEREBY CERTIFY THAT THIS CORRESPONDENCE
IS BEING DEPOSITED WITH THE UNITED STATES
POSTAL SERVICE AS FIRST CLASS MAIL IN AN
ENVELOPE ADDRESSED TO:

COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

ON:

December 13, 2002

Connie English Date
Signature
Connie English
Typed Name

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OCT 03 2004

TRANSMITTAL LETTER

TO THE COMMISSIONER FOR PATENTS:

OFFICE OF PETITIONS

Enclosed for filing in the above-referenced application are the following:

- ☒ Supplemental Information Disclosure Statement
- ☒ Form PTO-1499, together with copies of cited references
- ☒ Return receipt postcard

The Commissioner is hereby authorized to charge any additional fees which may be required in connection with filing of these papers, or credit overpayment, to Account No. 19-4455. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Kenneth J. Hines

By

Steven J. Munson

Steven J. Munson

Registration No. 47,812

STOEL RIVES LLP
900 SW Fifth Avenue, Suite 2600
Portland, Oregon 97204-1268
Telephone: (503) 224-3380
Facsimile: (503) 220-2480
Attorney Docket No. 10488/10:1

The stamp of the PTO hereon acknowledges receipt
of the following documents in re U.S. patent application
of **Kenneth J. Hines**, U.S. Patent Application No. 09/888,061,
filed June 21, 2001, for **EVOLUTION DIAGRAMS FOR
DEBUGGING DISTRIBUTED EMBEDDED SOFTWARE
APPLICATIONS**:

Transmittal letter (in duplicate)
Information Disclosure Statement
Form PTO-1449, together with copies of cited references

Mailed: October 8, 2001
Docket No. 10488/10:1 US
SJM:cem
Pd2-4329675

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

APPLICATION NO.

10488/10:1

09/888,061

APPLICANT

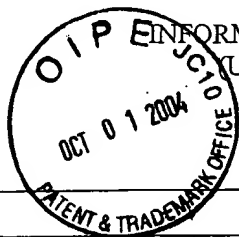
Kenneth J. Hines

FILING DATE

June 21, 2001

GROUP

2122

INFORMATION DISCLOSURE CITATION
(Uses several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5	4	2	8	7	8	2	6/27/95	White	395	650	
	AB	5	6	4	2	4	7	8	6/24/97	Chen, et al.	395	183.21	
	AC	5	7	2	4	5	0	8	3/3/98	Harple, Jr. et al.	395	200.04	
	AD												
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	EP 0 881 568 A2	29.05.1998	Europe	G06F	9/46		
	AM	EP 0 822 484 A2	04.02.1998	Europe	G06F	9/44		
	AN							
	AO							
	AP							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	Ken Hines and Gaetano Borriello, "A Geographically Distributed Framework for Embedded System Design and Validation," <i>DAC 98, June 15-19, 1998, San Francisco, CA USA</i> , pp. 140-145.
	AS	Gopalan Suresh Raj, "A Detailed Comparison of CORBA, DCOM, and Java/RMI," <i>Web Cornucopia</i> , wysiwyg://402/http://gsraj.tripod.com/misc/compare
	AT	"CORBA Overview," <i>CORBA v2.0</i> , July 1995, pp. 2-1 to 18-5

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

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APPLICATION NO.

10488/10:1

09/888,061

APPLICANT

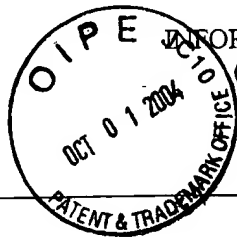
Kenneth J. Hines

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							YES	NO
	AL							
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AR	Richard J. Anderson, Paul Beame, Steve Burns, et al., "Model Checking Large Software Specifications," <i>Sigsoft '96 California, USA</i> , pp. 156-166.
AS	Christopher B. Borchert, "Organization and Management of Distributed Execution Event Histories For Real-Time Debugging," <i>IEEE</i> , pp. 343-345.
AT	Mariano P. Consens, Masum Z. Hasan, Alberto O. Mendelzon, "Visualizing and Querying Distributed Event Traces with Hyt," <i>Computer Systems Research Institute, University of Toronto</i> , June 1994, pp. 123-141.

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APPLICATION NO.

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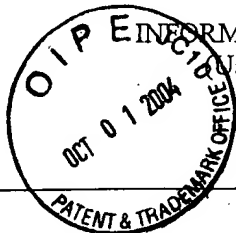
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AR	Wentong Cai, Wendy J. Milne and Stephen J. Turner, "Graphical Views of the Behavior of Parallel Programs," <i>Journal of Parallel and Distributed Computing</i> , June 18, 1993, No. 2, Orlando, FL, USA, pp. 223-230.
AS	Matthew S. Jaffe, Nancy G. Leveson, Mats P.E. Heimdahl, et al., "Software Requirements Analysis for Real-Time Process-Control Systems," <i>8198 IEEE Transactions on Software Engineering</i> , March 17, 1991, No. 3, New York, US, pp. 241-257.
AT	Thomas Kunz, David J. Taylor, and James P. Black, "Poet: Target-System-Independent Visualizations of Complex Distributed Executions," <i>IEEE</i> , 1997, pp. 452-461.

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10488/10:1

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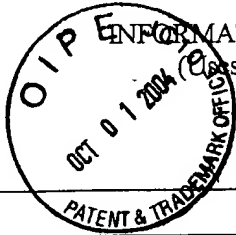
Kenneth J. Hines

FILING DATE

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AR	Doug Kimelman and Dror Zernik, "On-the-Fly Topological Sort - A Basis for Interactive Debugging and Live Visualization of Parallel Programs," 8398 <i>ACM Sigplan Notices</i> , December 28, 1993, No. 12, New York, US, pp. 12-20.
AS	Mikhail Auguston, "Building Program Behavior Models," <i>Dept. of Computer Science, New Mexico State University</i> , pp. 19-26.
AT	Stephen Edwards, Luciano Lavagno, Edward A. Lee, et al., "Design of Embedded Systems: Formal Models, Validation, and Synthesis," <i>Proceedings of the IEEE</i> , Vol. 85, No. 3, March 1997, pp. 366-389.

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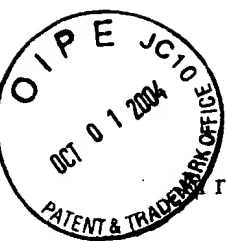
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AR	Pai Chou, Ross Ortega, Ken Hines, et al., "IPChinook: An Integrated IP-based Design Framework for Distributed Embedded Systems," pp. 44-49.
AS	Pai Chou, Ken Hines, Kurt Partridge and Gaetano Borriello, "Control Generation for Embedded Systems Based on Composition of Modal Processes," pp. 46-53.
AT	Pai H. Chou and Gaetano Borriello, "Synthesis and Optimization of Coordination Controllers for Distributed Embedded Systems," pp. 410-415.

EXAMINER

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re application of

Group Art Unit: 2122

Kenneth J. Hines

Application No. 09/888,061

Filed: June 21, 2001

For: **EVOLUTION DIAGRAMS FOR DEBUGGING
DISTRIBUTED EMBEDDED SOFTWARE
APPLICATIONS**

Date: October 8, 2001

TRANSMITTAL LETTER

TO THE COMMISSIONER FOR PATENTS:

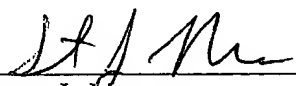
Enclosed for filing in the above-referenced application are the following:

- ☒ Information Disclosure Statement
- ☒ Form PTO-1449, together with copies of cited references
- ☒ Return receipt postcard

The Commissioner is hereby authorized to charge any additional fees which may be required in connection with filing of these papers, or credit overpayment, to Account No. 19-4455. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Kenneth J. Hines

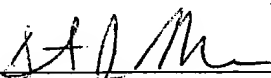
By 
Steven J. Munson
Registration No. 47,812

STOEL RIVES LLP
900 SW Fifth Avenue, Suite 2600
Portland, Oregon 97204-1268
Telephone: (503) 224-3380
Facsimile: (503) 220-2480
Attorney Docket No. 10488/10:1 USA

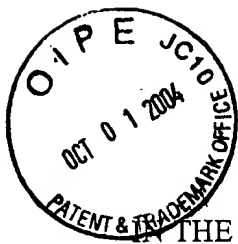
- c. ☐ After the mailing date of a final action or notice of allowance and on or before payment of an issue fee. A statement specified by 37 CFR 1.97(e) is set forth below. A petition requesting consideration of the information disclosure statement and the \$130.00 petition fee set forth in 37 CFR 1.17(i) are enclosed.
2. ☐ The attorney or agent signing below hereby states that:
- ☐ each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.
- ☐ no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement.
3. ☐ Applicant(s) set forth below concise explanations of the relevance of each document not in the English language and/or selected document(s) in the English language.

Respectfully submitted,

Kenneth J. Hines

By 
Steven J. Munson
Registration No. 47,812

STOEL RIVES LLP
900 SW Fifth Avenue, Suite 2600
Portland, Oregon 97204-1268
Telephone: (503) 224-3380
Facsimile: (503) 220-2480
Attorney Docket No. 10488/10:1 USA



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Group Art Unit: 2122

Kenneth J. Hines

Application No. 09/888,061

Filed: June 21, 2001

For: **EVOLUTION DIAGRAMS FOR DEBUGGING
DISTRIBUTED EMBEDDED SOFTWARE APPLICATIONS**

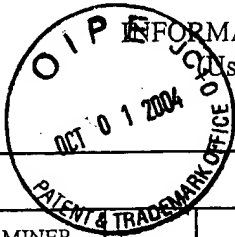
Date: October 8, 2001

INFORMATION DISCLOSURE STATEMENT

TO THE COMMISSIONER FOR PATENTS:

Pursuant to his duty of disclosure, applicant encloses a copy of the documents listed on the accompanying Form PTO-1449.

1. This information disclosure statement is being submitted:
 - a. ☒ Within three months of the filing date of the above-identified application or within three months of the date of entry of the national stage, or before the mailing date of the first Office action on the merits, whichever event occurs last. (No statement under 37 CFR 1.97(e) is required.)
 - b. ☐ After the period set forth in paragraph 1a, but before the mailing date of either a final action or a notice of allowance. (Check box i. or ii.)
 - i. ☐ A \$240.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed.
 - ii. ☐ A statement specified by 37 CFR 1.97(e) is set forth below.

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
10488/10:1APPLICATION NO.
09/888,061APPLICANT
Kenneth J. HinesFILING DATE
June 21, 2001GROUP
2122INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	5 8 1 9 2 7 0	10/06/98	Malone et al.	707	7	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

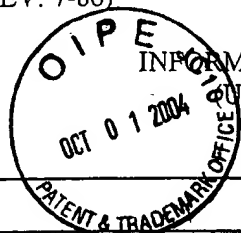
AB	[Baecker et al., 1997] Baecker, R., DiGiano, C., and Marcus, A. (1997). Software Visualization for Debugging. <i>CACM</i> , Vol. 40, No. 4, Arpil 1997, pgs. 44-54. ✓
AC	[Bates, 1986] Bates, P.C. (1986). <i>Debugging Programs in a Distributed System Environment</i> . Ph.D. thesis, University of Massachusetts, Amherst. ✓
AD	[Bates and Wileden, 1983] Bates, P.C. and Wileden, J.C. (1983). High-level Debugging of Distributed Systems: The Behavioral Abstraction Approach. <i>The Journal of Systems and Software</i> , Vol. 3, No. 4, December 1983, pgs. 255-264. ✓
AE	[Bruegge, 1991] Bruegge, B. (1991). A Portable Platform for Distributed Event Environments. In <i>ACM/ONR Workshop on Parallel & Distributed Debugging</i> , pgs. 184-193. ✓
AF	[Fidge, 1991] Fidge, C.J. (1991). Logical Time in Distributed Computing Systems. <i>IEEE Computer</i> , 24(8):28-33. ✓
AG	[Hines and Borriello, 1998] Hines, K. and Borriello, G. (1998). Debugging Distributed Implementations of Modal Process Systems. <i>Lecture Notes in Computer Science</i> . 1474:98-107. ✓
AH	[Khouzam and Kunz, 1996] Khouzam, M. and Kunz, T. (1996). Single Stepping in Event-Visualization Tools. In <i>Proceedings of the 1996 CAS Conference</i> , pages 103-114. ✓
AI	[Koehnemann and Lindquist, 1993] Koehnemann, H. and Lindquist, T. (1993). Towards Target-Level Testing and Debugging Tools for Embedded Software. In <i>Conference Proceedings on Tri-ADA '93</i> , pages 288-298. ✓
AJ	[Kundu, 1996] Kundu, J. (1996). <i>Integrating Event- and State-Based Approaches to the Debugging of Parallel Programs</i> . Ph.D. thesis, University of Massachusetts, Amherst. ✓
AK	[Kunz, 1994] Kunz, T. (1994). <i>Abstract Behavior of Distributed Executions with Applications to Visualization</i> . Ph.D. thesis, Technische Hochschule Darmstadt, Darmstadt, Germany. ✓
AL	[Mattern, 1989] Mattern, F. (1989). On the Relativistic Structure of Logical Time in Distributed Systems. <i>Parallel and Distributed Algorithms</i> . ✓

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

10/8/2001

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
10488/10:1APPLICATION NO.
09/888,061APPLICANT
Kenneth J. HinesFILING DATE
June 21, 2001GROUP
2122INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

AM	[Netzer and Xu, 1993] Netzer, R. H. B. and Xu, J. (1993). Adaptive Message Logging for Incremental Program Replay, <i>IEEE Parallel and Distributed Technology</i> , pages 32-39. ✓
AN	[Harter et al., 1985] Harter, Jr., P.K., Heimbigner, D.M., and King, R. (1985). IDD: An Interactive Distributed Debugger. In <i>Proc. of the 5th International Conference on Distributed Computing Systems</i> , pages 498-506. IEEE. ✓
AO	[Russell, 1980] Russell, D. L. (1980). State Restoration in Systems of Communicating Processes. <i>IEEE Transactions of Software Engineering</i> , Vol. SE-6, No. 2, pgs. 183-194. ✓
AP	[Shende et al., 1996] Shende, S., Cuny, J., Hansen, L., Kundu, J., McLaughry, S., and Wolf, O. (1996). Event and State-Based Debugging in TAU: A Prototype. In <i>Symposium on Parallel and Distributed Tools</i> , pages 21-30. ✓
AQ	[Side and Shoja, 1994] Side, R. S. and Shoja, G. C. (1994). A Debugger for Distributed Programs. <i>Software - Practice and Experience</i> , Vol. 24(5), pgs. 507-525. ✓
AR	[Taylor, 1992], Taylor, D.J. (1992). A Prototype Debugger for Hermes. In <i>Proceedings of the 1992 CAS Conference</i> , pgs. 313-326. ✓
AS	[Taylor, 1995] Taylor, D. J. (1995). Event Displays for Debugging and Managing Distributed Systems. In <i>International Workshop on Network and Systems Management</i> . ✓
AT	[Tsai et al., 1990] Tsai, J. J. P., Fang, K. Y., and Chen, H. Y. (1990). A Noninvasive Architecture to Monitor Real-Time Distributed Systems. <i>IEEE Computer</i> , 23:11-23. ✓
AU	[Valot, 1993] Valot, C. (1993). Characterizing the Accuracy of Distributed Timestamps. In <i>ACM/ONR Workshop on Parallel & Distributed Debugging</i> , pgs.43-52. ✓
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

10/8/2001